DATA SHEET

Encom™ Discover™ 3D 2011

REALISE THE TRUE VALUE OF YOUR DATA WITH THE INTEGRATED 3D GIS FOR THE GEOSCIENCES.

Summary

Encom Discover 3D 2011 is the ultimate 3D extension for MapInfo Professional/Encom Discover. With Discover 3D you can rapidly visualise, model and analyse your drillhole and related datasets in true 3D, and then dynamically plan follow-up drilling to test your theories.

Benefits

- Effortless migration of MapInfo Professional datasets into the 3D environment - raster imagery, grid surfaces, vector data and drillhole projects are all fully supported
- Accurately digitise 3D vector objects
- Powerful modelling capabilities, from solid wireframing and extrusion through to 3D grid/block model interpolation
- Real-time drillhole planning
- Produce eye-catching movies with dynamic data content.

OVERVIEW

Pitney Bowes Business Insight's latest release of Encom Discover 3D reinforces it as the geoscientist's essential 3D platform for the MapInfo Professional/Discover GIS environment. Discover 3D 2011 includes a number of tools for advanced analytical operations between vector and voxel models, such as determining the mean voxel grades for multiple wireframed orebody models.

Dynamic geometric statistics are now automatically calculated for all feature objects, such as volume and surface area, and our seismic interpretation module allows multi-section correlation in both 2D and 3D with fully attributed vector objects.

A Unified 3D Environment

The Discover 3D application allows you to combine, visualise, interrogate, and model your geochemical, lithological, geophysical, hydrological, and geomechanical data in a dynamic 3D environment. Boreholes, soil samples, well logs, photogrammetry, mapping, seismic sections, interpretations, surface models, solids models, and voxel models can all be viewed in the same 3D space. So when creating outlines, surface grids, and solids
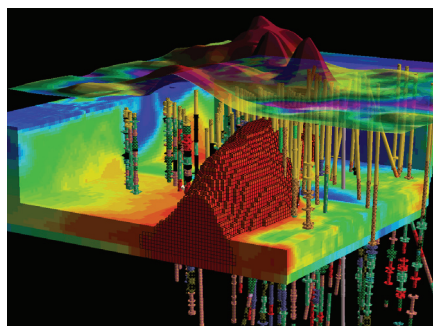
Bring together all of your 2D and 3D datasets in a unified 3D environment.

models in Discover 3D, you can be sure your interpretations are fully informed and precise—in every dimension.

Drillholes in Real Space

Realise the potential of true 3D drillhole and trench traces, without the inherent bias of cross-sectional representations. With just a few mouse-clicks, easily open your 2D Discover drillhole/trench project into Discover 3D. Quickly render drillholes and trenches with the same lithology and assay legends as already used on your 2D cross-sections. Then accurately interpret, digitise and model this data directly in 3D.

Want to test your interpretations and models? Discover 3D also allows new drillholes (such as daughter and splay holes) to be dynamically designed and refined to test specific targets and models at depth, such as geophysical and block model anomalies, or potential extensions to mineralisation.

3D Vector Creation, Editing and Manipulation

All of these visualisation options are great, but I really want to interpret my 3D data!

You can precisely interpret and digitise directly in 3D, with accurate snapping to drillholes and other 3D datasets as well as freeform drawing. Create points, polylines, polygons and surfaces, and edit, combine, cut and manipulate these objects to delineate targets and lithological boundaries. Then use these objects as the basis for more advanced modelling techniques.

Encom™ Discover™ 3D 2011

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Powerful Modelling Capabilities

Discover 3D is much more than a 3D visualiser, providing users with a powerful suite of surface and solids modelling tools. These can assist in trend interpolation, experimentation with mineralisation scenarios, lithological delineation and structural extensions.

Wireframing

After digitising and editing your 2D sectional outlines or 3D interpretations (snapped precisely to drillholes), Discover 3D provides a simple and effective wireframing tool for solid modelling. Use tielines to control and refine complex polyhedral shapes in a dynamic 3D environment. Surfaces and solids created in Discover 3D or imported from external sources can be combined, intersected, cut, and trimmed with any other surface or grid. For example, you might trim the top of a wireframed orebody model with the current topographic surface, or create the intersection surface between a lithological unit and a fault plane.

Surface Gridding

Interpolate grids from point and polylines digitised directly in 3D, such as fault plane or unconformity surfaces.

Extrude 2D Shapes into 3D Solids

The 3D extrusion tool allows you to quickly transform any 2D outline into a 3D object. This is the perfect tool for extrapolating structural features from surface, or converting site plans into three-dimensional structures, both above and below ground.

Voxel Models

Reveal or reinforce trends and extensions in your downhole data by block model
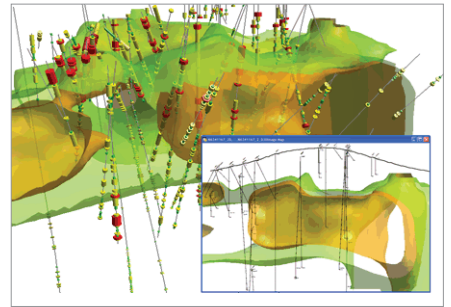
Interpolate block models from your drillhole data, analyse them and share with your 2D sections.

interpolation, using powerful methods such as density, inverse distance weighting, and kriging. Maximise the value of these interpolations with a range of 3D grid manipulation and analysis utilities.

Seismic Analysis

Visualise and interpret multiple SEGY seismic time and depth sections in 2D and 3D. Automated horizon picking and editing functionality assists with the precise application of velocities for easy depth section generation.

Produce Exciting 3D Presentations

Need to share your 3D environment with other users? Discover 3D sessions can be viewed with the free 3D viewer built into Encom Discover 2011. Or create professional movies (in standard video formats) with dynamic data content throughout; perfect for eye-catching shareholder, management and conference presentations.

Effortless Navigation

Navigating in 3D can be precisely controlled by various combinations of mouse and keyboard commands. Or hook up a 3DConnexion SpaceNavigatorTM controller for easy and intuitive navigation.

TO LEARN MORE VISIT WWW.PBINSIGHT.COM.AU OR CALL +61.2.9437.6255.

SPECIFICATIONS

Supported Operating Systems
Windows® XP Professional (Service Pack 3), Windows® Vista (Service Pack 2), Windows® 7 32-bit and 64-bit operating systems.
Encom Discover 3D 2011 is an optional licensed module for Encom Discover 2011, and requires MapInfo Professional version 9.5 or later.

Pitney Bowes
Business Insight

Every connection is a new opportunity™